

Single Athletic Ball Bounce Lab  
Honors Physics

22 Points Total

1. Write a procedure for how you will measure the work done by floor when the ball bounces of four different athletic balls. Be precise in your wording and measurements (2 points).
2. Draw a picture of the setup (2 points).
3. Create a data table listing the initial height, final height, initial potential energy, final potential energy, and work done by the floor for four different athletic balls (3 points).
4. Calculations for initial and final potential energy and work done by the floor of each athletic ball (8 points; 2 for each athletic ball).
5. Sources of error and improvements in the experiment (4 points; 2 each).
6. Conclusion, discussing the experiment and where the energy lost could have gone (3 points).